Calculus 1 Workbook

Idea of the limit

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IDEA OF THE LIMIT

■ 1. The table below shows some values of a function $g(x)$. What does the table show for the value of $\lim_{x \to 4} g(x)$?

x	$g(x)$
3.9	1.9748
3.99	1.9975
3.999	1.9997
4.001	2.0002
4.01	2.0025
4.1	2.0248

■ 2. How would you express, mathematically, the limit of the function $f(x) = x^2 - x + 2$ as x approaches 3?

■ 3. How would you write the limit of $g(x)$ as x approaches ∞, using correct mathematical notation?

$$g(x) = \frac{5x^2 - 7}{3x^2 + 8}$$

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